

METHOD AND APPARATUS FOR CREATING AND ENFORCING PROTECTED SYSTEM LEVEL JAVA CODE

ABSTRACT OF THE DISCLOSURE

According to the preferred embodiments, an object oriented mechanism and
5 method allow creating system level Java code that is protected, and therefore cannot be
accessed or extended by unauthorized users or programs. Several new tests are
performed during loading, linking, and initialization of a class that assure that the class is
as the operating system expects. In addition, one or more runtime tests may be performed
to prevent programs from getting into the Java system level code via a runtime "back
10 door." By providing additional tests when classes are loaded and when certain types of
methods and functions are invoked at runtime, the Java system level code is protected
from unauthorized access and use.